

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
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SECRETARY

JOHN AUERBACH
COMMISSIONER

05/31/2011

Maria Markos
Assistant District Attorney, Essex County

Dear ADA Markos,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan & Stacey Desjardins.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Stacey Desjardins was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Stacey Lyn Desjardins

stacey.feiden@state.ma.us

EDUCATION

Master of Science—Forensic Science

University of New Haven; West Haven, Connecticut

May 2006

- Concentration: Criminalistics
- Certificate: Advanced Investigation

Bachelor of Arts—Chemistry

Monmouth College; Monmouth, Illinois

May 2004

- Graduated Cum Laude

EXPERIENCE

Chemist I

Massachusetts Department of Public Health; Jamaica Plain, Massachusetts

March 2009-present

- Analyze unknown substances submitted by Massachusetts Law Enforcement Agencies
- Operate, maintain, and interpret data from analytical equipment (Gas Chromatograph, analytical balance, microscope, Ultraviolet Spectrometer, Infrared Spectrometer)
- Provide expert testimony to local, state, and federal courts in Massachusetts

Teaching/Graduate Assistant

Monmouth College Chemistry Department

University of New Haven Forensic Science Department

January 2001-May 2006

- Supervised labs and answered student questions
- Performed demonstrations using forensic techniques and chemicals

Additional work experience and references available upon request

TRAINING

2010: DEA Forensic Chemist Seminar—Washington DC

2009: Multijurisdictional Counterdrug Task Force Training on Current Drug Trends

2009: Six week training with Senior Staff at the Massachusetts Department of Public Health Drug Analysis Laboratory—appointed Assistant Analyst

2005: Internship with the New Hampshire State Crime Lab

COURSEWORK

Biomedical Methods of Forensic Science, Criminal Procedure, Forensic Microscopy, Advanced Criminalistics I and II, Forensic Toxicology, Advanced Investigation I and II, Physical Analysis in Forensic Science, Organic Chemistry I and II, General Chemistry, Analytical Chemistry I and II, Physical Chemistry I, II, and III, Biochemistry, Advanced Inorganic Chemistry

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

The Commonwealth of Massachusetts

Executive Office of Health and Human Services

Department of Public Health

State Laboratory Institute

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 – 11:00

2:00 – 4:00

Amherst Hours

9:00 – 12:00

1:00 – 3:00

DRUG RECEIPT

City or Department: LYNN Police Reference No.: _____

Name and Rank of Submitting Officer: DET. MARK RICHMOND

Defendant(s) Name (last, first, initial):



To be completed by Submitter

Description of Items Submitted

To be completed by Lab Personnel

Gross Weight

Lab Number

1 PB SUBSTANCE (COCAINE)	1.84g	

Received by: Date: 10-24-08

No. [REDACTED]

Date Analyzed: 05-22-09

City: Lynn Police Dept.

Officer: Detective MARK RICHMOND

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 1 Cont: pb

Date Rec'd: 10/24/2008

No. Analyzed: 1

Gross Wt.: 1.84 ✓

Net Weight: 0.19g

Tests: 6 SLF

• 2 ASD



Prelim: cocaine

Findings: cocaine

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Lynn ANALYST SLF
No. of samples tested: 1 balance ✓ok Evidence Wt. ✓

PHYSICAL DESCRIPTION: - signed & sealed
- off white chunky substance
in pb w/ piece scotch
tape

Gross Wt (): _____
Gross Wt (1): 0.3275g
Pkg. Wt: 0.1371g
Net Wt: 0.1904g

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate (H+) ⊕
Marquis ⊖
Froehde's ⊖
Mecke's ⊖

Microcrystalline Tests

Gold
Chloride ⊕
TLTA (H+) ⊕

OTHER TESTS

GC ⊕

PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 5-18-09

Ⓚ

GC/MS CONFIRMATORY TEST

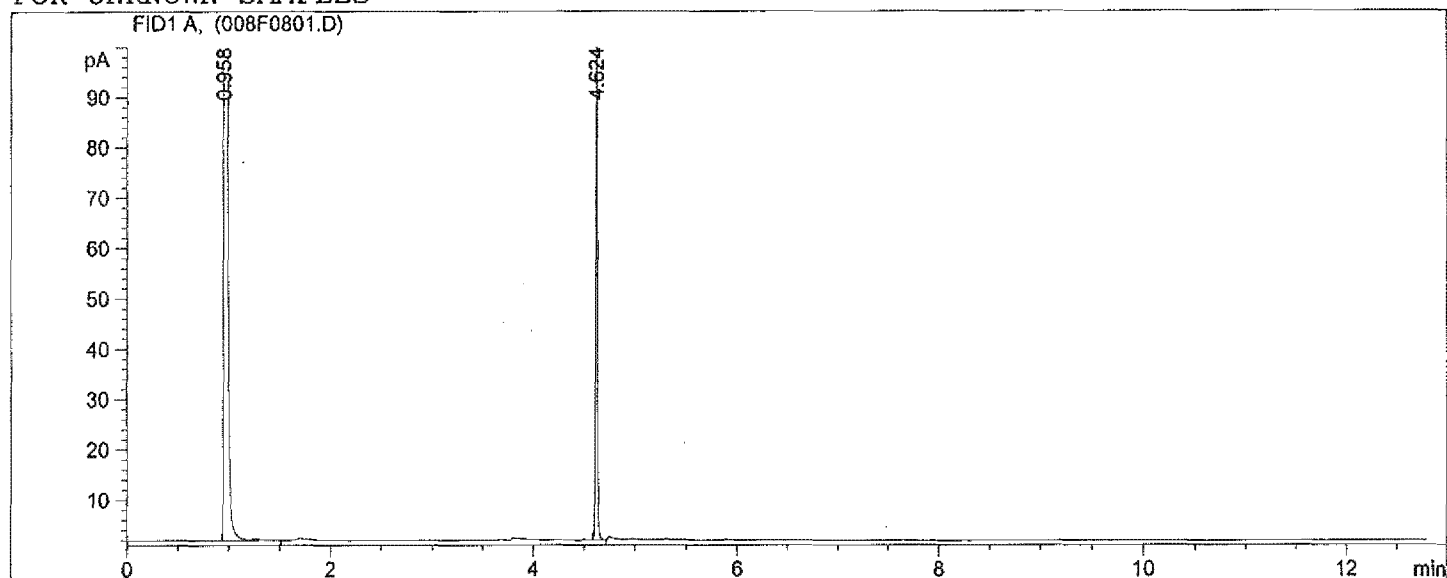
RESULTS cocaine

MS
OPERATOR ASD

DATE 5-22-09

```
=====
Injection Date   : 5/18/2009 3:31:43 PM      Seq. Line :    8
Sample Name     : ██████████                Vial      :    8
Acq. Operator   : ASD                      Inj       :    1
                                           Inj Volume : 1 µl

Sequence File    : C:\HPCHEM\1\SEQUENCE\DCS.S
Method          : C:\HPCHEM\1\METHODS\ROUTINE.M
Last changed    : 3/16/2009 4:48:01 PM by ASD
FOR UNKNOWN SAMPLES
=====
```



```
=====
                          Area Percent Report
=====
```

```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	0.958	PB S	0.0154	2.58395e4	2.54117e4	99.50141
2	4.624	BV	0.0192	129.47894	106.41172	0.49859

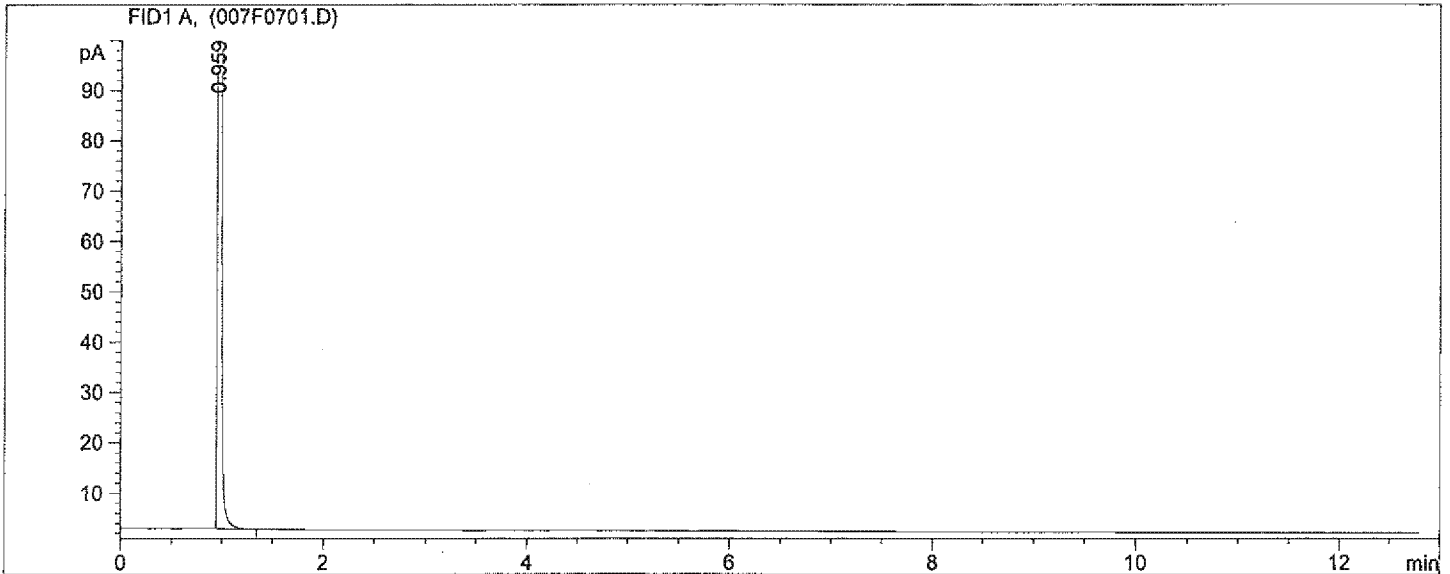
Totals : 2.59689e4 2.55181e4

Results obtained with enhanced integrator!

```
=====
*** End of Report ***
=====
```

```
=====
Injection Date   : 5/18/2009 3:13:41 PM      Seq. Line :    7
Sample Name      : BLANK                      Vial       :    7
Acq. Operator    : ASD                       Inj         :    1
                                           Inj Volume  : 1 µl

Sequence File    : C:\HPCHEM\1\SEQUENCE\DCS.S
Method           : C:\HPCHEM\1\METHODS\ROUTINE.M
Last changed     : 3/16/2009 4:48:01 PM by ASD
FOR UNKNOWN SAMPLES
```



```
=====
                          Area Percent Report
=====
```

```
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	0.959	BB S	0.0161	2.76934e4	2.56664e4	1.000e2

```
Totals :                      2.76934e4  2.56664e4
```

Results obtained with enhanced integrator!

```
=====
*** End of Report ***
```

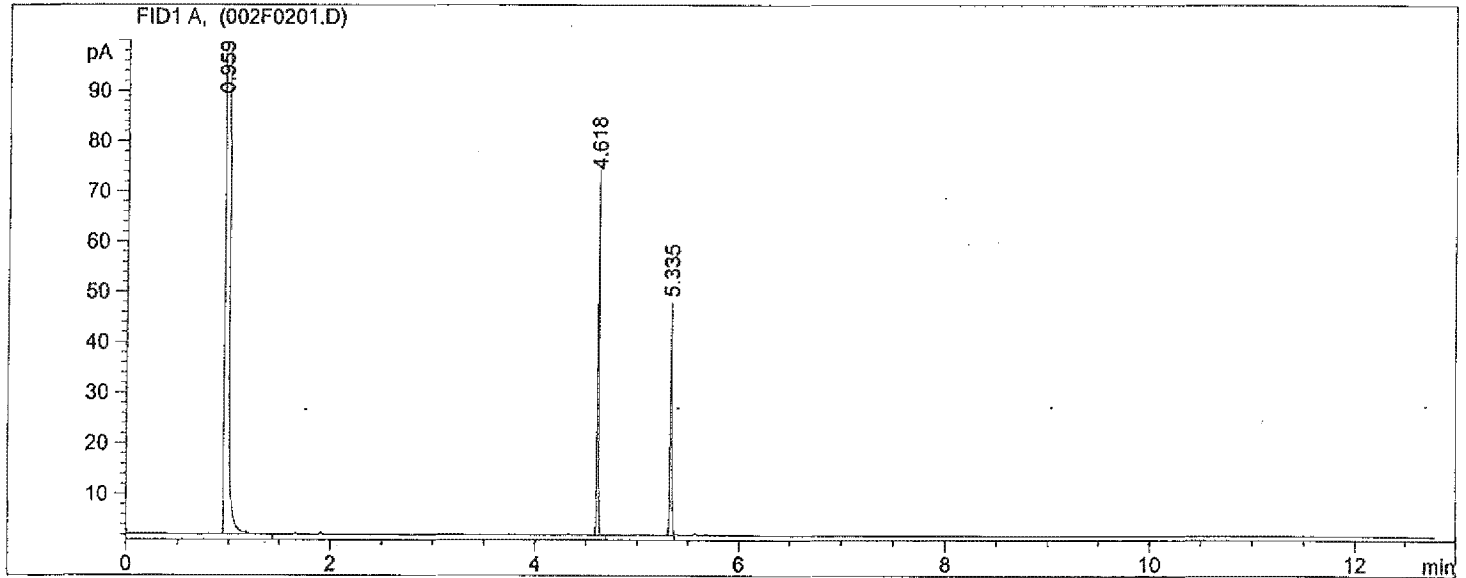


```

=====
Injection Date   : 5/18/2009 1:43:50 PM          Seq. Line :    2
Sample Name     : COKE/CODEINE STD              Vial      :    2
Acq. Operator   : ASD                          Inj       :    1
                                                Inj Volume : 1 µl

Sequence File    : C:\HPCHEM\1\SEQUENCE\DCS.S
Method          : C:\HPCHEM\1\METHODS\ROUTINE.M
Last changed    : 3/16/2009 4:48:01 PM by ASD
FOR UNKNOWN SAMPLES

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000

```

Signal 1: FID1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	0.959	BB S	0.0157	2.64259e4	2.51678e4	99.55373
2	4.618	BB	0.0147	65.42208	71.26148	0.24646
3	5.335	BV	0.0185	53.03603	45.91020	0.19980

Totals : 2.65443e4 2.52850e4

Results obtained with enhanced integrator!

```

=====
*** End of Report ***

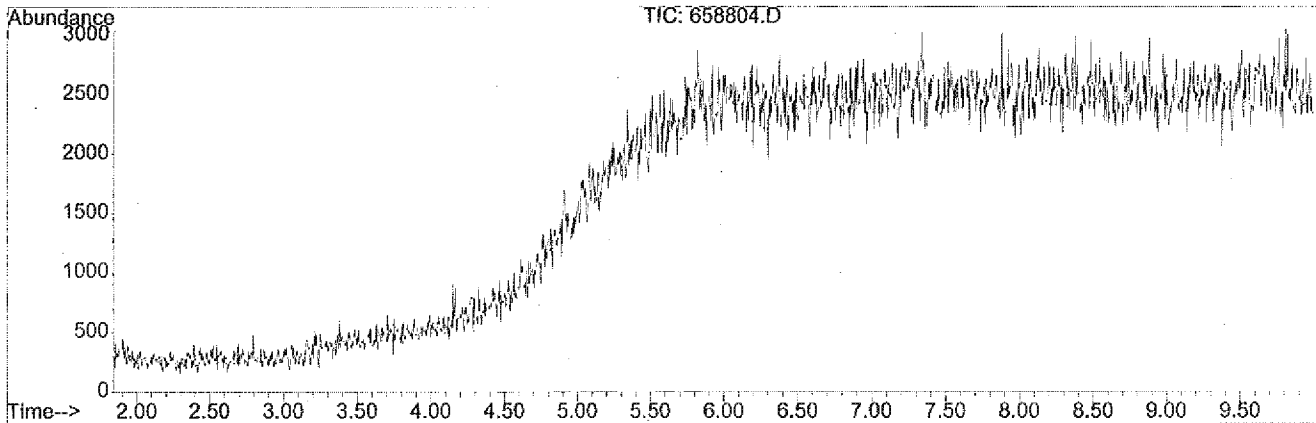
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Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2009\SYSTEM7\05_20_09\658804.D
Operator : ASD
Date Acquired : 20 May 2009 8:29
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE

✓ ASD
5-31-11



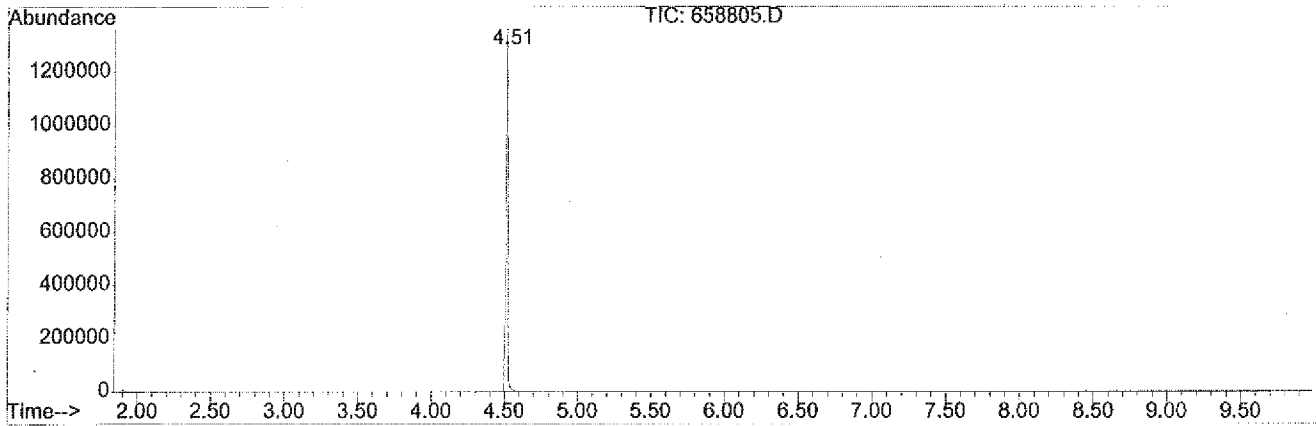
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2009\SYSTEM7\05_20_09\658805.D
Operator : ASD
Date Acquired : 20 May 2009 8:41
Sample Name : COCAINE STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.511	1167685	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

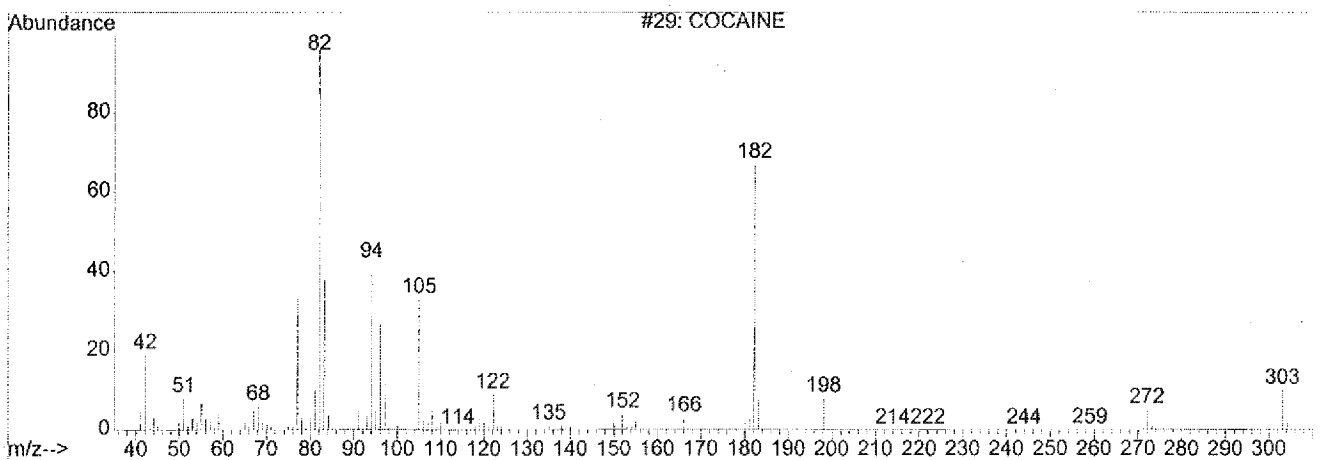
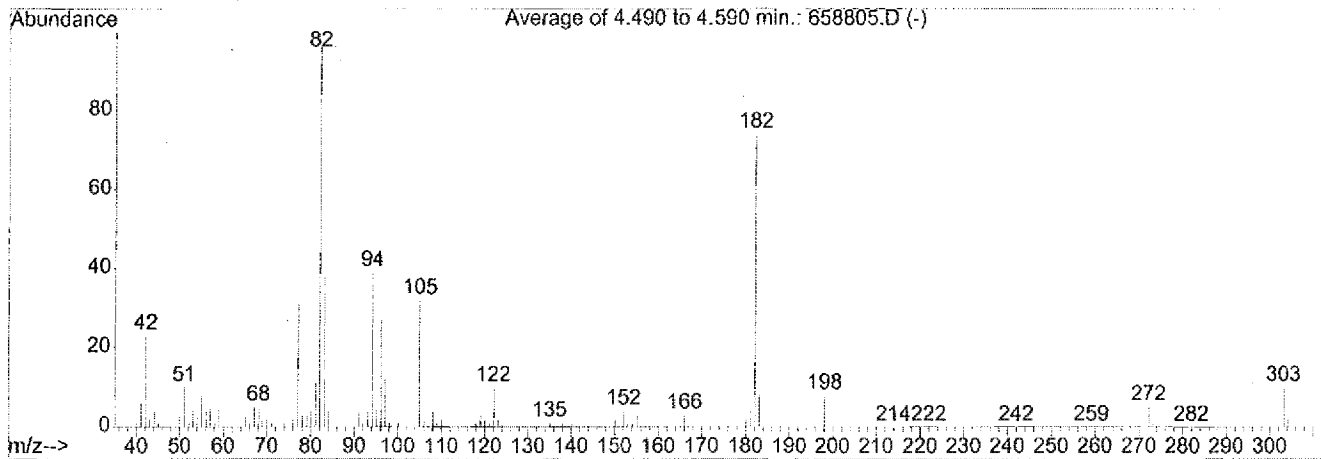
```

File Name       : F:\Q2-2009\SYSTEM7\05_20_09\658805.D
Operator        : ASD
Date Acquired   : 20 May 2009   8:41
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 5
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

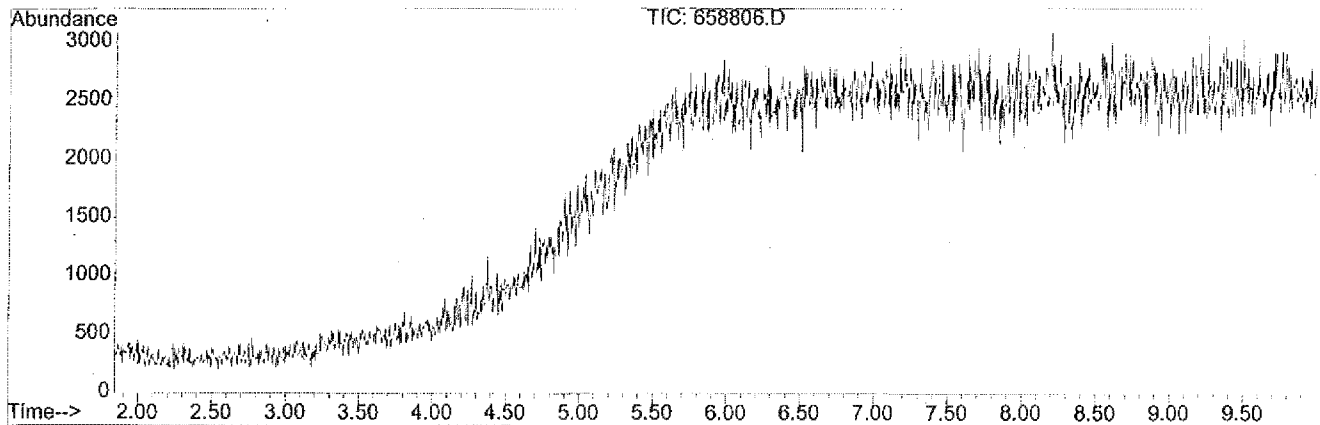
PK#	RT	Library/ID	CAS#	Qual
1	4.51	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2009\SYSTEM7\05_20_09\658806.D
Operator : ASD
Date Acquired : 20 May 2009 8:54
Sample Name : BLANK
Submitted by : LAG
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



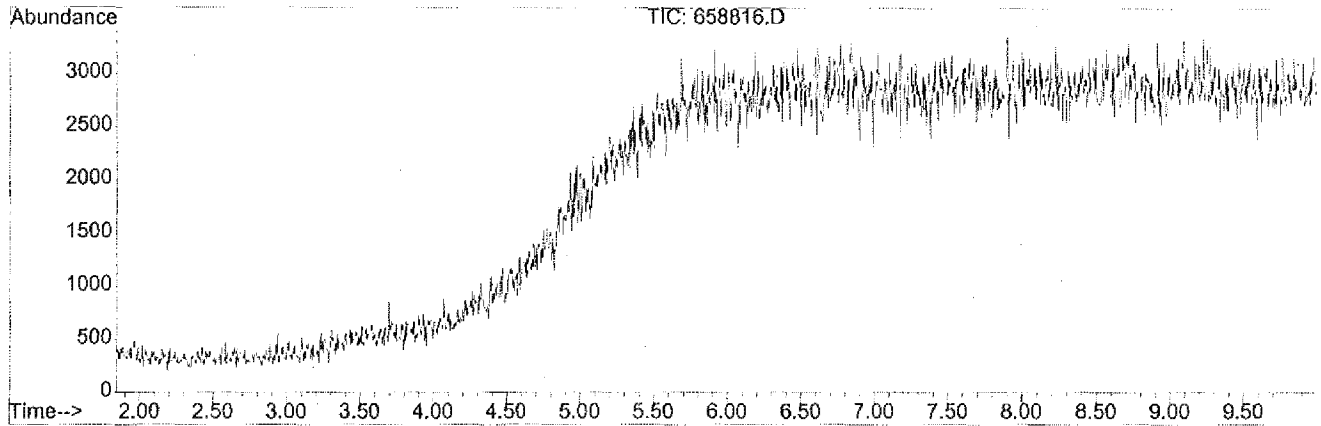
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2009\SYSTEM7\05_20_09\658816.D
Operator : ASD
Date Acquired : 20 May 2009 11:00
Sample Name : BLANK
Submitted by : SLF
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



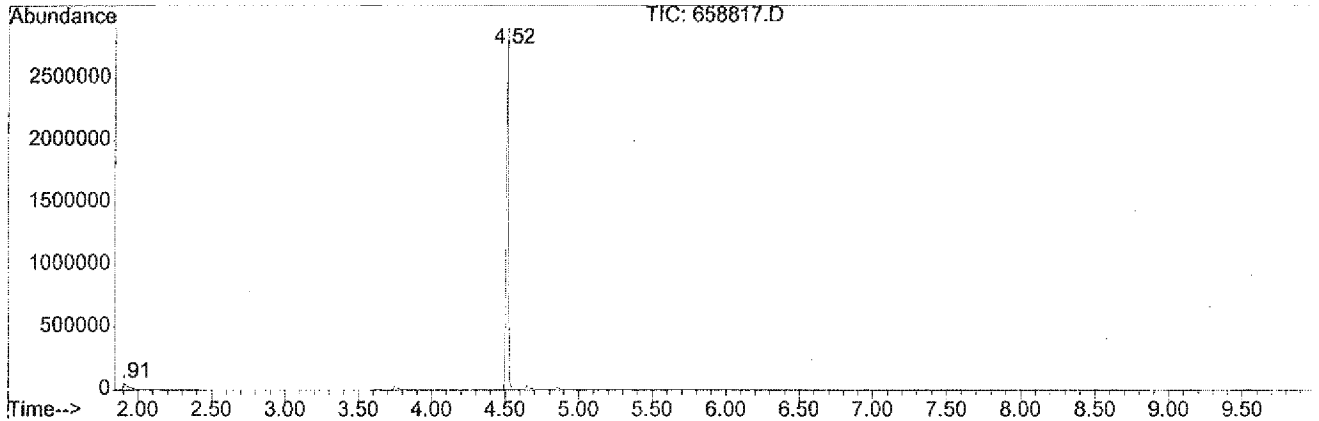
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2009\SYSTEM7\05_20_09\658817.D
 Operator : ASD
 Date Acquired : 20 May 2009 11:13
 Sample Name : XXXXXXXXXX
 Submitted by : SLF
 Vial Number : 17
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
1.906	139142	4.48	4.69
4.516	2968221	95.52	100.00

Area Percent / Library Search Report

Information from Data File:

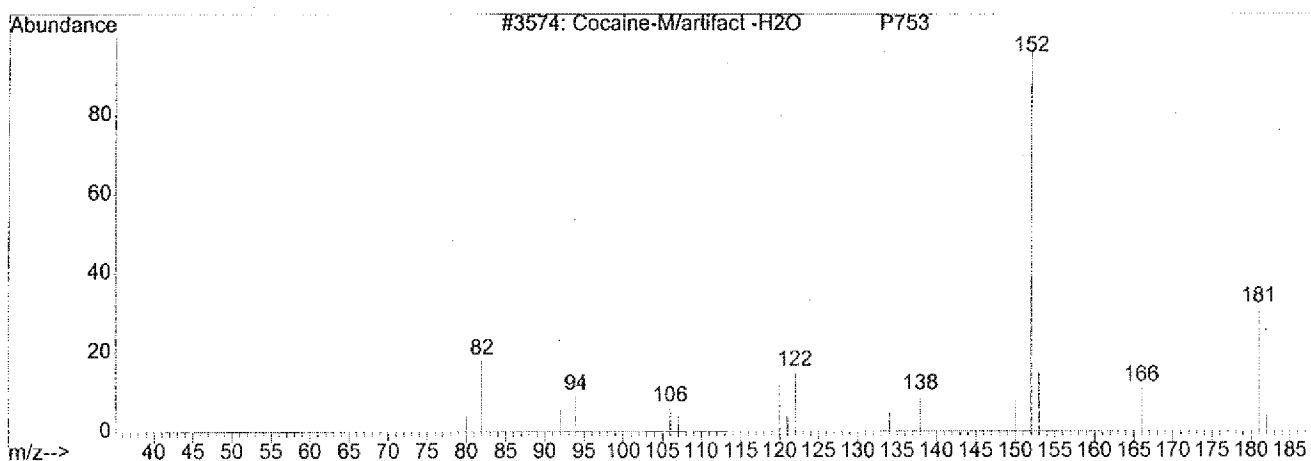
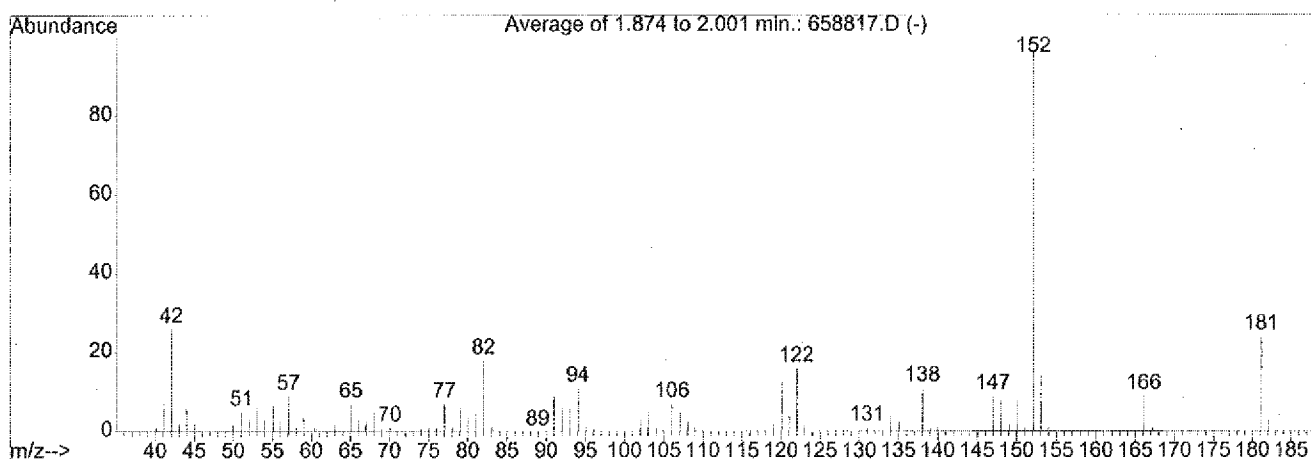
```

File Name       : F:\Q2-2009\SYSTEM7\05_20_09\658817.D
Operator        : ASD
Date Acquired   : 20 May 2009  11:13
Sample Name     : 
Submitted by    : SLF
Vial Number     : 17
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	1.91	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M/artifact -H2O	000000-00-0	97
		MDA-M (desmethylenyl-methyl-) ME @	000000-00-0	38
		Metipranolol-M/artifact AC	000000-00-0	23



Area Percent / Library Search Report

Information from Data File:

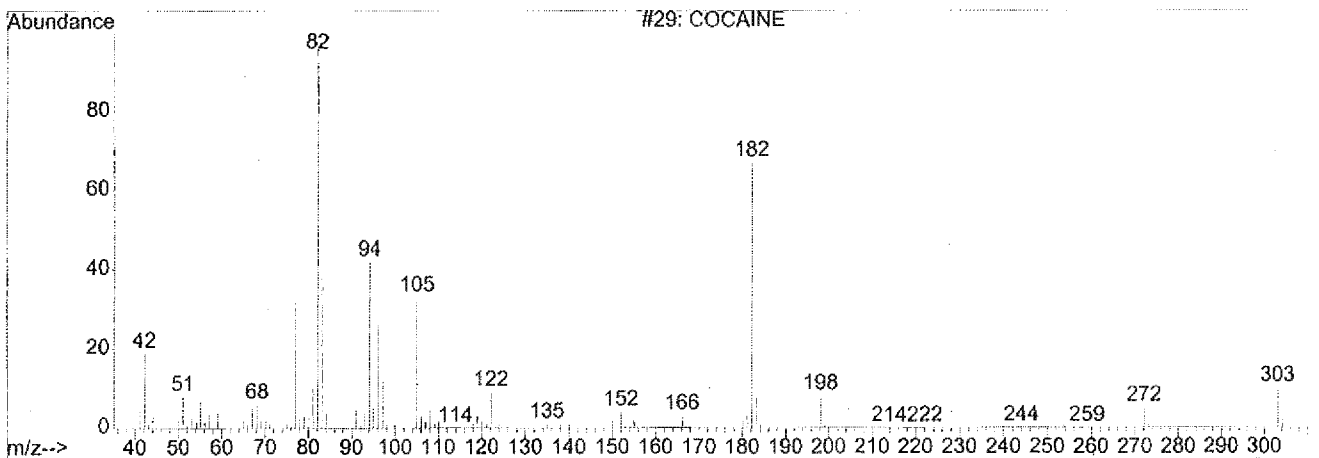
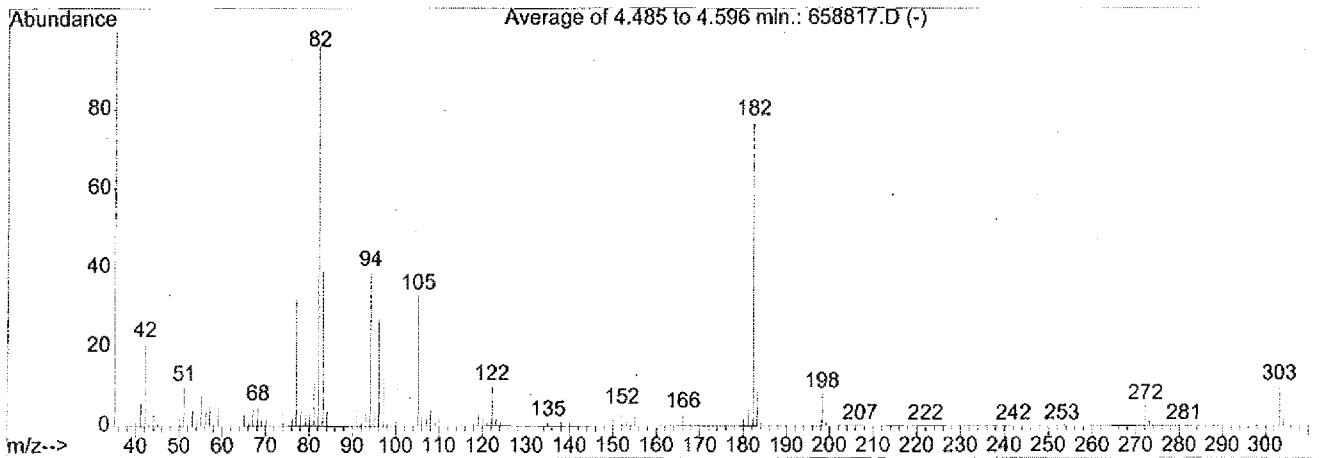
```

File Name       : F:\Q2-2009\SYSTEM7\05_20_09\658817.D
Operator        : ASD
Date Acquired   : 20 May 2009  11:13
Sample Name     : ██████████
Submitted by    : SLF
Vial Number     : 17
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

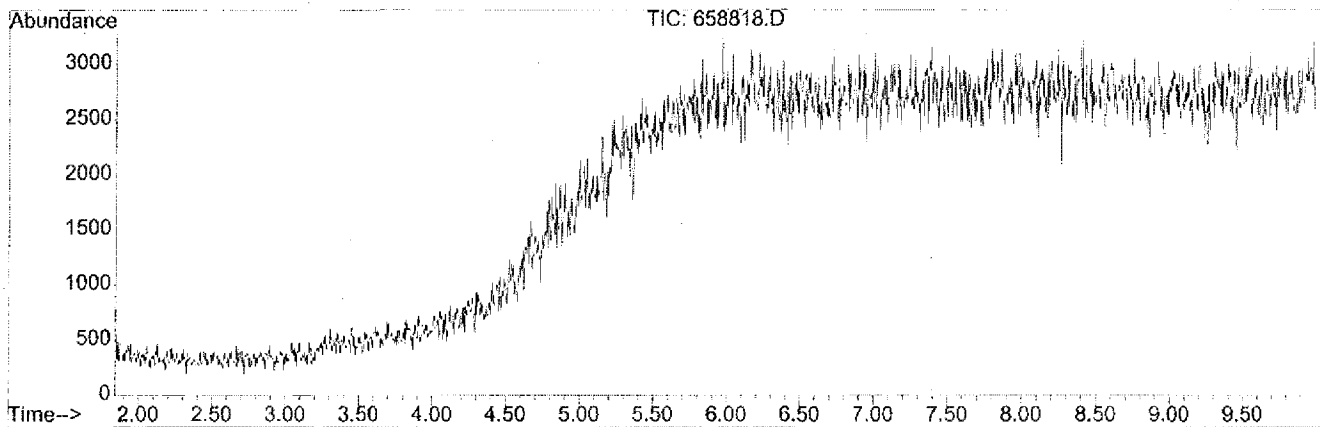
PK#	RT	Library/ID	CAS#	Qual
2	4.52	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2009\SYSTEM7\05_20_09\658818.D
Operator : ASD
Date Acquired : 20 May 2009 11:25
Sample Name : BLANK
Submitted by : SLF
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



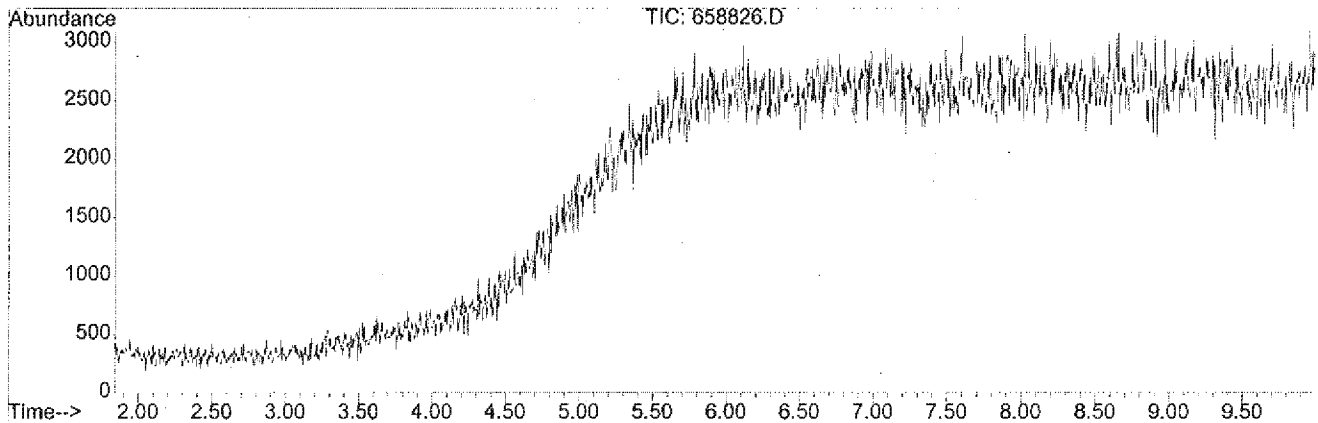
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2009\SYSTEM7\05_20_09\658826.D
Operator : ASD
Date Acquired : 20 May 2009 13:07
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



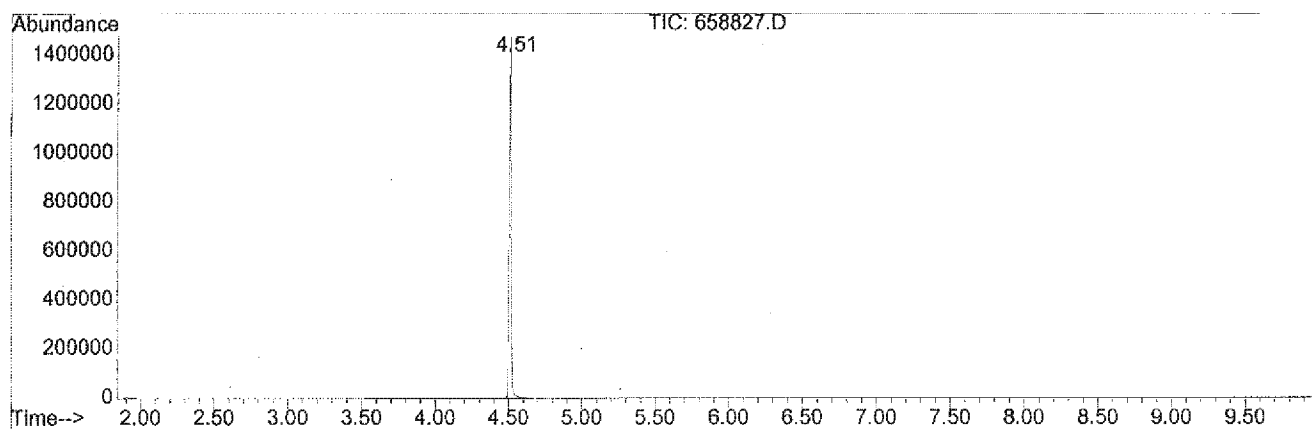
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2009\SYSTEM7\05_20_09\658827.D
 Operator : ASD
 Date Acquired : 20 May 2009 13:19
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 27
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.511	1338706	100.00	100.00

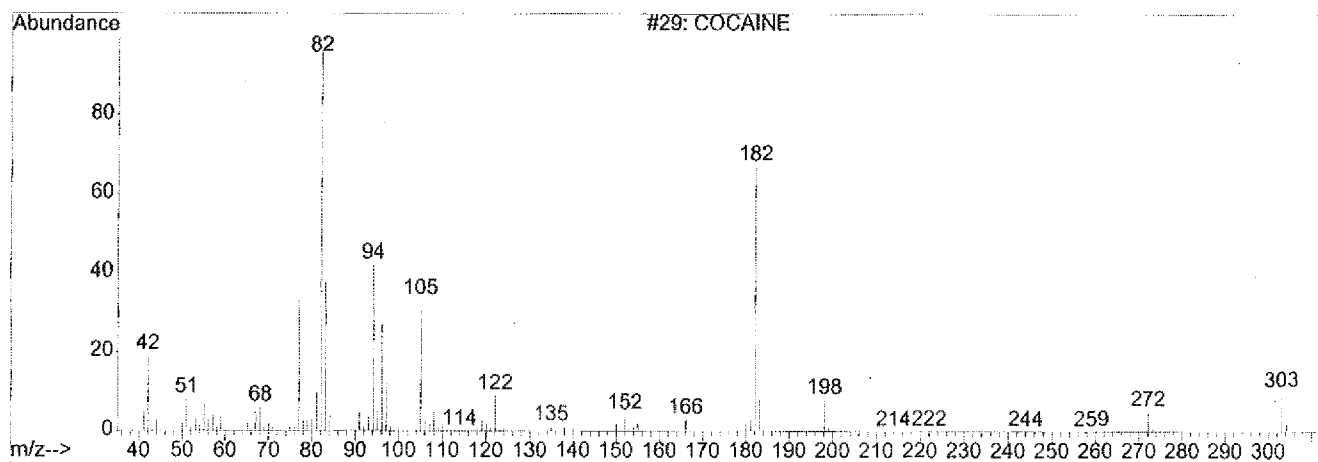
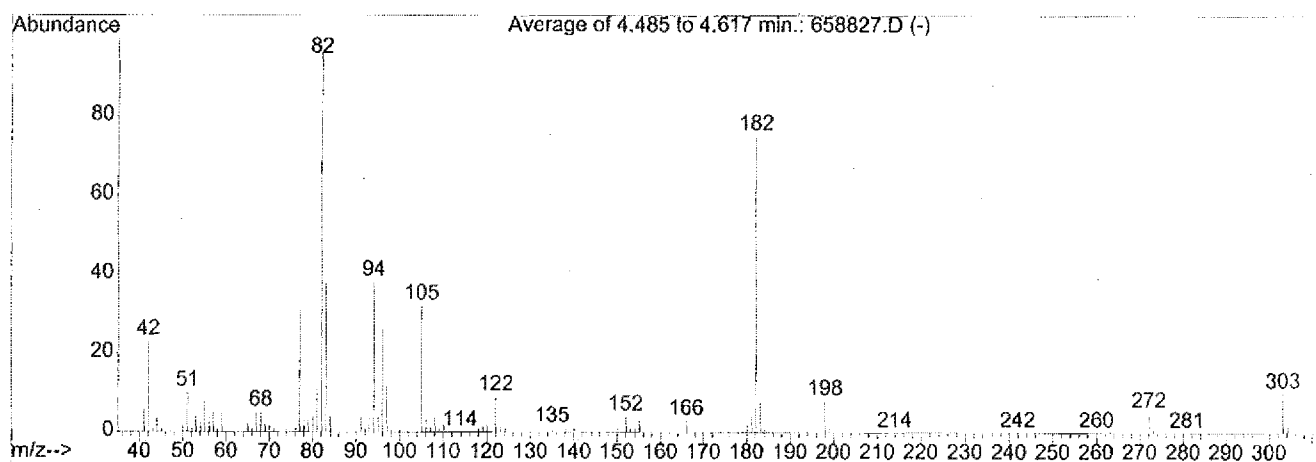
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2009\SYSTEM7\05_20_09\658827.D
 Operator : ASD
 Date Acquired : 20 May 2009 13:19
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 27
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

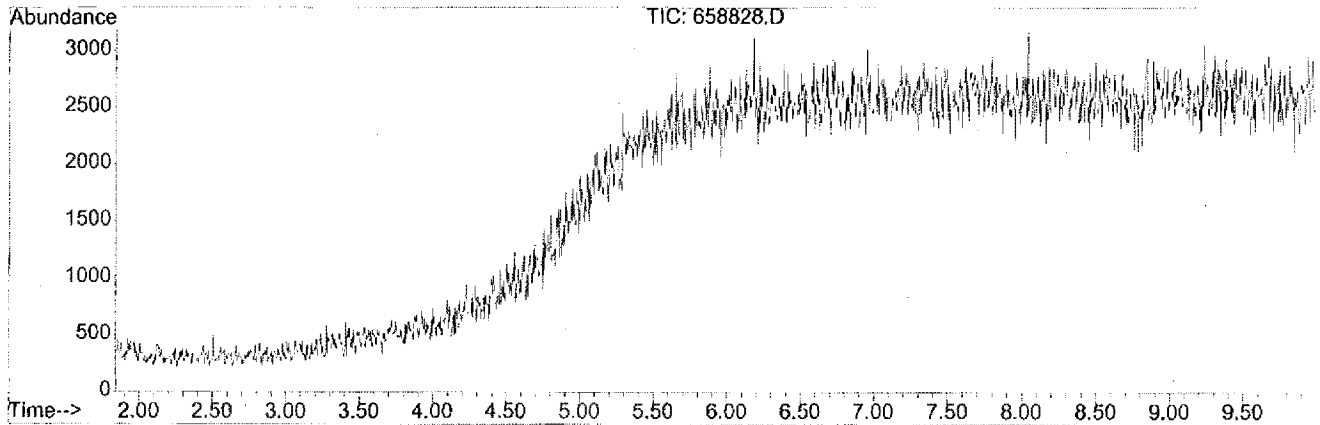
PK#	RT	Library/ID	CAS#	Qual
1	4.51	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q2-2009\SYSTEM7\05_20_09\658828.D
Operator : ASD
Date Acquired : 20 May 2009 13:32
Sample Name : BLANK
Submitted by : NEM
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS